

Title (en)

APPARATUS AND METHOD FOR POLISHING A SURFACE OF A SUBSTRATE

Title (de)

VORRICHTUNG UND VERFAHREN ZUM POLIEREN EINER OBERFLÄCHE EINES SUBSTRATS

Title (fr)

APPAREIL ET PROCÉDÉ DE POLISSAGE D'UNE SURFACE D'UN SUBSTRAT

Publication

EP 3272459 A1 20180124 (EN)

Application

EP 17181177 A 20170713

Priority

- JP 2016139777 A 20160714
- JP 2017051673 A 20170316

Abstract (en)

An apparatus which can polish an entirety of a surface of a substrate, such as a wafer, is disclosed. The apparatus according to the present invention includes a substrate holder configured to hold a substrate and rotate the substrate; and a polishing head configured to rub a polishing tool against a first surface of the substrate to polish the first surface. The substrate holder includes a plurality of rollers which can contact a periphery of the substrate. The plurality of rollers are rotatable about their respective own axes.

IPC 8 full level

B24B 37/013 (2012.01); **B24B 37/10** (2012.01); **B24B 37/30** (2012.01); **B24B 57/02** (2006.01)

CPC (source: EP KR US)

B08B 1/32 (2024.01 - US); **B24B 7/228** (2013.01 - EP US); **B24B 27/033** (2013.01 - EP US); **B24B 37/013** (2013.01 - EP KR US);
B24B 37/04 (2013.01 - KR); **B24B 37/042** (2013.01 - EP US); **B24B 37/10** (2013.01 - EP US); **B24B 37/107** (2013.01 - EP US);
B24B 37/30 (2013.01 - EP US); **B24B 41/067** (2013.01 - EP US); **B24B 49/08** (2013.01 - EP US); **B24B 57/02** (2013.01 - KR);
B24D 7/06 (2013.01 - EP US); **H01L 21/304** (2013.01 - US); **H01L 21/30625** (2013.01 - KR); **H01L 21/67051** (2013.01 - US);
H01L 21/68728 (2013.01 - US); **H01L 21/6875** (2013.01 - US)

Citation (search report)

- [XYI] US 6520843 B1 20030218 - HALLEY DAVID G [US]
- [Y] US 2003073319 A1 20030417 - BASOL BULENT [US], et al
- [X] WO 02060643 A2 20020808 - STRASBAUGH [US]

Cited by

EP3753674A1; US11335588B2

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 3272459 A1 20180124; EP 3272459 B1 20210908; KR 102074269 B1 20200207; KR 20180008315 A 20180124; US 10376929 B2 20190813;
US 2018015508 A1 20180118

DOCDB simple family (application)

EP 17181177 A 20170713; KR 20170088951 A 20170713; US 201715647829 A 20170712